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Pentair 152165

Pentair 152165 Clamp Assembly User Manual

For Pool/Spa Sand Filters

1. INTRODUCTION

This manual provides instructions for the installation, operation, and maintenance of the Pentair 152165/1521656 1-1/2-Inch Clamp Assembly. This component is designed as a replacement part for specific Pentair pool and spa sand filters. Please read these instructions carefully before proceeding with installation or maintenance to ensure proper function and safety.

2. PRODUCT OVERVIEW

The Pentair 152165 Clamp Assembly is a crucial component for securing the top and bottom halves of compatible pool and spa sand filters. It ensures a watertight seal, preventing leaks and maintaining filter integrity.



Image 1: Pentair 152165 Clamp Assembly, showing two black plastic clamp halves with pre-installed screws and nuts.

2.1 Key Features:

- Replacement clamp assembly for Pentair pool/spa sand filters.
- Constructed from durable plastic.
- Includes necessary nuts and screws for installation.
- Measures 1-1/2 inches.

2.2 Compatibility:

This clamp assembly is compatible with the following Pentair sand filter models:

- Pentair Meteor Sand Filters
- Pentair Sand Dollar Sand Filters
- Pentair Cristal-Flo Sand Filters
- Pentair Tagelus Sand Filter Models: TA 30D, TA 35D, TA 40D, TA 50D, TA 60D

3. SETUP AND INSTALLATION

Safety First: Before beginning any work on your pool or spa filter system, ensure the pump is turned off and disconnected from its power source. Relieve any pressure in the filter tank by opening the air relief valve.

3.1 Required Tools:

- Wrench (appropriate size for clamp nuts)
- Flathead screwdriver (if applicable for old clamp removal)
- Replacement O-ring (recommended, not included with clamp assembly)

3.2 Installation Steps:

1. **Prepare the Filter:** Turn off the pump and disconnect power. Open the air relief valve to release pressure. Drain the filter tank if necessary.
2. **Remove Old Clamp (if applicable):** Loosen and remove the nuts and bolts securing the old clamp assembly. Carefully separate the filter tank halves and remove the old clamp.
3. **Inspect O-ring:** Inspect the filter tank O-ring for any signs of wear, cracks, or damage. It is highly recommended to replace the O-ring when replacing the clamp assembly to ensure a proper seal. Clean the O-ring groove on both filter halves.
4. **Position Filter Halves:** Carefully align the top and bottom halves of the filter tank, ensuring the O-ring is properly seated in its groove between them.
5. **Install New Clamp:** Place the two halves of the new Pentair 152165 clamp assembly around the flange where the filter tank halves meet. Ensure the clamp halves are properly seated and aligned.
6. **Secure the Clamp:** Insert the provided screws through the clamp halves and secure them with the nuts. Hand-tighten the nuts initially.
7. **Evenly Tighten:** Using a wrench, gradually tighten the nuts in an alternating pattern (like tightening lug nuts on a car wheel) to ensure even pressure around the filter tank flange. Do not overtighten, as this can damage the clamp or filter tank. The goal is a snug, secure fit that prevents leaks.
8. **Final Check:** Once tightened, visually inspect the clamp to ensure it is evenly seated around the entire circumference of the filter tank.

4. OPERATING INSTRUCTIONS

After installing the clamp assembly, follow these steps to resume filter operation:

1. **Close Air Relief Valve:** Ensure the air relief valve on the filter is closed.

2. **Restore Power:** Reconnect power to the pump and turn it on.
3. **Check for Leaks:** Carefully observe the clamp assembly and the filter tank for any signs of water leaks. If leaks are detected, immediately turn off the pump, relieve pressure, and re-tighten the clamp nuts evenly. If leaks persist, check the O-ring for proper seating or damage.
4. **Monitor Pressure:** Monitor the filter pressure gauge. Ensure it operates within the manufacturer's recommended range for your specific filter model.

5. MAINTENANCE

Regular maintenance of your filter system, including the clamp assembly, helps ensure longevity and efficient operation.

- **Periodic Inspection:** Periodically inspect the clamp assembly for any signs of wear, cracks, or damage. Check the nuts and screws for tightness.
- **Cleanliness:** Keep the clamp and surrounding area clean from debris and chemical residue.
- **O-ring Care:** When disassembling the filter for sand changes or other maintenance, always inspect and lubricate the O-ring with a silicone-based lubricant designed for pool equipment. Replace the O-ring if it shows any signs of degradation.

6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Water leaking from clamp area	Clamp not tightened evenly	Turn off pump, relieve pressure, and re-tighten clamp nuts evenly.
	Damaged or improperly seated O-ring	Inspect and replace O-ring if damaged or improperly seated.
	Damaged clamp assembly	Replace the clamp assembly if it is cracked or broken.
Difficulty securing clamp	Misalignment of filter tank halves	Ensure filter tank halves are perfectly aligned.
	Debris in O-ring groove	Clean O-ring groove thoroughly.
	Incorrect clamp size	Verify the clamp assembly model number matches your filter's requirements.

7. SPECIFICATIONS

- **Model Number:** 152165 (also compatible with 1521656)
- **Material:** Plastic
- **Size:** 1-1/2-Inch
- **Includes:** Clamp halves, nuts, and screws
- **Product Dimensions:** 1 x 7 x 8 inches
- **Item Weight:** 5.6 ounces
- **Manufacturer:** Pentair

8. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or to purchase additional replacement parts, please contact Pentair directly or visit their official website. Keep your purchase receipt as proof of purchase.

Pentair Official Website: www.pentair.com